# PROCEDURES FOR LIFE CYCLE COST ANALYSIS For

Agencies Soliciting Competitive Bids Under Title 41, Chapter 16, Code of Alabama 1975

Effective Date: January 1, 2009



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These procedures have been prepared by the State of Alabama, Department of Examiners of Public Accounts as required by Act Number 2008-379, Acts of Alabama.

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## LIFE CYCLE COST ANALYSIS GUIDELINES

### 1. Applicable Agencies

These procedures apply to State Trade Schools, State Junior Colleges, State Colleges, or Universities under the supervision and control of the State Board of Education, City and County Boards of Education, District Boards of Education of Independent School Districts, County Commissions, Governing Bodies of the Municipalities of the State, and Governing Bodies of Instrumentalities of Counties and Municipalities, including water works boards, sewer boards, gas boards, and other like utility boards and commissions specified in the *Code of Alabama 1975*, Section 41-16-50. These procedures <u>do not</u> apply to the Departments, Boards, Bureaus, Commissions, Committees, Institutions, Corporations, Authorities, or Offices of the State of Alabama specified in the *Code of Alabama 1975*, Section 41-16-20.

#### 2. <u>Life Cycle Costs Defined</u>

Life Cycle Cost Analysis is defined "as a method for evaluating all relevant costs over the time of a project, product, or measure. This method takes into account first costs, including capital investment costs, purchase, and installation costs; future costs, including energy costs, operating costs, maintenance costs, capital replacement costs, financing costs; and any resale, salvage, or disposal cost, over the life-time of the project, product, or measure." <sup>i</sup>

#### 3. General Provisions

The Awarding Authority <sup>ii</sup> is not required to use life cycle cost analysis in making bid awards; however, State Law does allow the use of life cycle cost analysis.

The Awarding Authority may use life cycle cost analysis for personal property purchases as provided by the Alabama Competitive Bid Law, *Code of Alabama 1975*, Section 41-16-57(c). Alabama Law does <u>not</u> allow the use of Life Cycle Costing for Real Property. Before applying life cycle cost analysis, the Awarding Authority must:

- Determine the personal property (item or items) to be purchased;
- Determine whether the total cost of ownership over the expected life of the item or items, including acquisition costs, plus sustaining costs can be reasonably ascertained using industry recognized and accepted sources;
- Determine that the bid meets the terms, conditions and specifications listed in the invitation to bid;

- Include in the invitation to bid provisions that specify that the lowest responsible bid might be determined using life cycle costs; and
- Include in the invitation to bid the standards to be applied in determining the life cycle costs and the industry recognized and accepted sources that will be applicable to the evaluation.

#### 4. Documentation Requirements

The Awarding Authority must maintain documentation of all items related to the bid process in their bid files as required by Alabama Law, including the information on life cycle cost analysis specified below. The Awarding Authority should be aware that often data obtained through electronic means is only available for short periods of time and must, therefore, establish methods to retrieve and maintain this data and make it available for inspection.

- a. The Awarding Authority must identify how they determined that the Source ("industry recognized and accepted source") is an Industry Recognized Source. The Source must be independent of the companies solicited or submitting bids.
- b. The Awarding Authority must determine the relevant costs to be used based on how the personal property is to be used and the characteristics of the personal property. Relevant costs include, but are not limited to: purchase price, installation costs, operating costs, energy costs, repair and maintenance costs, training costs, disposal costs, residual values, etc.
- c. The Awarding Authority must consider all relevant costs related to the item to be purchased in evaluating the total cost of ownership. These elements must be specified in the invitation to bid.
- d. The Awarding Authority must identify how the cost elements will be used in calculating the total cost of ownership. All information related to the calculation and evaluation of the total cost of ownership must be included in the bid files and must be made available for public inspection.
- e. The Awarding Authority must receive all information that will be considered in the awarding of the bid by the date of the bid opening. Any information furnished after the opening of the bids must not be considered.

#### 5. <u>Effective Date</u>

These guidelines shall become effective on January 1, 2009 and shall remain in effect until amended or rescinded by the Department of Examiners of Public Accounts, or by operation of Law.

<sup>&</sup>lt;sup>1</sup> Guidance on Life Cycle Cost Analysis Required by Executive Order 13123, April 2005, prepared for the Department of Energy by Sieglinde K. Fuller, Economist, Office of Applied Economics, National Institute of Standards and Technology, page 11.

ii Awarding Authority refers to those agencies specified in Article 3 of the Code of Alabama 1975, Section 41-16-50.